

Attachment - Revised Claims

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A solid-chemical composition which provides a sustained-release of active oxygen and complex inorganic phosphates, comprising:

- a. A solid-chemical source of active oxygen from about 20% to 99% by weight percent of said composition;
- b. complex inorganic phosphates from about 1% to 80% by weight percent of said composition.

2. The solid-chemical composition of Claim 1, whereby said solid-chemical source of active oxygen is one or more selected from the group consisting of calcium peroxide and magnesium peroxide.
3. The solid-chemical composition of Claim 1, whereby said complex inorganic phosphates are one or more selected from the group consisting of ringed metaphosphates and linear polyphosphates.
- 91 4. The solid-chemical composition of Claim 1, whereby said complex inorganic phosphates are one or more selected from the group consisting of sodium hexametaphosphate, sodium trimetaphosphate, sodium tripolyphosphate, sodium-potassium tripolyphosphate, and tetrasodium polyphosphate.
5. The solid-chemical composition of Claim 1, further comprising a source of inorganic nitrogen from about 0.1% to 10% by weight percent of said composition.
6. The solid-chemical composition of Claim 1, further comprising an ammonium-free source of inorganic nitrogen being one or more selected from the group consisting of sodium nitrate, sodium-potassium nitrate, potassium nitrate, and other soluble salts of nitrate, from about 0.1% to 10% by weight percent of said composition.
7. The solid-chemical composition of Claim 1, further comprising a simple inorganic orthophosphate, from about 0.1% to 35% by weight percent of said composition.
8. The solid-chemical composition of Claim 1, further comprising a simple inorganic orthophosphate being one or more selected from the group consisting of sodium phosphate, calcium phosphate, potassium phosphate, and sodium-potassium phosphate, from about 0.1% to 35% by weight percent of said composition.

9. The solid-chemical composition of Claim 1, further comprising an organic disintegrant, from about 0.01% to 5% by weight percent of said composition.
10. The solid-chemical composition of Claim 1, further comprising an organic disintegrant being one or more selected from the group consisting of pre-gelled starch, powdered molasses, granulated sugar, sodium starch glycolate, crosscarmellose of sodium, and crospovidone, from about 0.01% to 5% by weight percent of said composition.
11. The solid-chemical composition of Claim 1, further comprising an inorganic disintegrant, from about 0.05% to 10% by weight percent of said composition.
12. The solid-chemical composition of Claim 1, further comprising an inorganic disintegrant being one or more selected from the group consisting of bentonite, montmorillonite, kaolinite, and other clay minerals, from about 0.05% to 10% by weight percent of said composition.
13. The solid-chemical composition of Claim 1, further comprising an inorganic buffer, from about 0.5% to 60% by weight percent of said composition.
14. ~~The solid-chemical composition of Claim 1, further comprising an inorganic buffer being one or more selected from the group consisting of calcium carbonate, lime, limestone, siderite and ferrous carbonate, rhodochrosite and manganese carbonate, calcium phosphate, sodium bicarbonate, portland cement, metal oxides, metal hydroxides, and metal oxyhydroxides, from about 0.5% to 60% by weight percent of said composition.~~
15. The solid-chemical composition of Claim 1, further comprising a metal catalyst for chemical-oxidation reactions, from about 0.25% to 25% by weight percent of said composition.
16. The solid-chemical composition of Claim 1, further comprising a metal catalyst being one or more selected from the group consisting of ferrous sulfate and other soluble salts of ferrous iron, from about 0.25% to 25% by weight percent of said composition.

17. The solid-chemical composition of Claim 1, further comprising a lubricant, from about 0.01% to 1.5% by weight percent of said composition.
18. The solid-chemical composition of Claim 1, further comprising a lubricant being one or more selected from the group consisting of magnesium stearate, calcium stearate and other stearates, stearic acid, sodium stearyl fumarate, hydrogenated vegetable oil, silicone, talc, and corn starch, from about 0.01% to 1.5% by weight percent of said composition.
19. The solid-chemical composition of Claim 1, further comprising an inoculum for biological organisms being one or more selected from the group consisting of aerobic bacteria, facultative bacteria, other bacteria capable of using oxygen as a terminal electron acceptor for any biogeochemical process, denitrifying bacteria, mycoplasmas, white-rot fungi, brown-rot fungi and other multicellular fungi, and yeasts, from about 0.0001% to 0.5% by weight percent of said composition.
20. The solid-chemical composition of Claim 1, further comprising an inoculum for biological organisms being one or more selected from the group consisting of yellow boy, *Bacillus* spp., *Rhizobium* spp., *Bradyrhizobium* spp., *Fibrobacter* spp., *Clostridium* spp., *Pseudomonas* spp., *Geobacter* spp., *Arthrobacter* spp., *Nocardia* spp., *Aspergillus* spp., *Trichoderma* spp., *Candida* spp., *Yarrowia* spp., *Piptoporous* spp., *Serpula* spp., *Coriolus* spp., *Phanerochaete* spp., *Pleurotus* spp., *Sporotrichum* spp., *Bjerkandera* spp., and *Trametes* spp., from about 0.0001% to 0.5% by weight percent of said composition.
21. A solid-chemical composition which provides a sustained-release of active oxygen and complex inorganic phosphates, comprising:
- A solid-chemical source of active oxygen being one or more selected from the group consisting of calcium peroxide and magnesium peroxide, from about 57% to 95% by weight percent of said composition;
 - Sodium hexametaphosphate, being a complex inorganic phosphate, from about 0.25% to 25% by weight percent of said composition;
 - Sodium trimetaphosphate, being a complex inorganic phosphate, from about 0.25% to 25% by weight percent of said composition;
 - Pre-gelled starch, being an organic disintegrant, from about 0.1% to 4% by weight percent of said composition;

- e. Magnesium stearate, being a lubricant, from about 0.05% to 1% by weight percent of said composition.
22. The solid-chemical composition of Claim 21, further comprising another complex inorganic phosphate being one or more selected from the group consisting of sodium tripolyphosphate, sodium-potassium tripolyphosphate, and tetrasodium polyphosphate, from about 0.1% to 15% by weight percent of said composition.
23. The solid-chemical composition of Claim 21, further comprising a source of inorganic nitrogen from about 0.1% to 5% by weight percent of said composition.
24. The solid-chemical composition of Claim 21, further comprising an ammonium-free source of inorganic nitrogen being one or more selected from the group consisting of sodium nitrate, sodium-potassium nitrate, potassium nitrate, and other soluble salts of nitrate, from about 0.1% to 5% by weight percent of said composition.
25. The solid-chemical composition of Claim 21, further comprising a simple inorganic orthophosphate, from about 0.1% to 20% by weight percent of said composition.
26. The solid-chemical composition of Claim 21, further comprising a simple inorganic orthophosphate being one or more selected from the group consisting of sodium phosphate, calcium phosphate, potassium phosphate, and sodium-potassium phosphate, from about 0.1% to 20% by weight percent of said composition.
27. The solid-chemical composition of Claim 21, further comprising another organic disintegrant being one or more selected from the group consisting of powdered molasses, granulated sugar, sodium starch glycolate, crosscarmellose of sodium, and crospovidone, from about 0.01% to 1% by weight percent of said composition.
28. The solid-chemical composition of Claim 21, further comprising an inorganic disintegrant, from about 0.05% to 10% by weight percent of said composition.
29. The solid-chemical composition of Claim 28, further comprising an inorganic disintegrant being one or more selected from the group consisting of bentonite, montmorillonite, kaolinite, and other clay minerals, from about 0.05% to 10% by weight percent of said composition.

30. The solid-chemical composition of Claim 21, further comprising an inorganic buffer, from about 0.5% to 30% by weight percent of said composition.

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31. The solid-chemical composition of Claim 21, further comprising an inorganic buffer being one or more selected from the group consisting of calcium carbonate, lime, limestone, siderite and ferrous carbonate, rhodochrosite and manganese carbonate, calcium phosphate, sodium bicarbonate, portland cement, metal oxides, metal hydroxides, and metal oxyhydroxides, from about 0.5% to 30% by weight percent of said composition.

32. The solid-chemical composition of Claim 21, further comprising a metal catalyst for chemical-oxidation reactions, from about 0.25% to 15% by weight percent of said composition.

33. The solid-chemical composition of Claim 21, further comprising a metal catalyst being one or more selected from the group consisting of ferrous sulfate and other soluble salts of ferrous iron, from about 0.25% to 15% by weight percent of said composition.

34. The solid-chemical composition of Claim 21, further comprising another lubricant being one or more selected from the group consisting of calcium stearate and other stearates, stearic acid, sodium stearyl fumarate, hydrogenated vegetable oil, silicone, talc, and corn starch, from about 0.01% to 1% by weight percent of said composition.

35. The solid-chemical composition of Claim 21, further comprising an inoculum for biological organisms being one or more selected from the group consisting of aerobic bacteria, facultative bacteria, other bacteria capable of using oxygen as a terminal electron acceptor for any biogeochemical process, denitrifying bacteria, mycoplasmas, white-rot fungi, brown-rot fungi and other multicellular fungi, and yeasts, from about 0.0001% to 0.5% by weight percent of said composition.

36. The solid-chemical composition of Claim 21, further comprising an inoculum for biological organisms being one or more selected from the group consisting of yellow boy, Bacillus spp., Rhizobium spp., Bradyrhizobium spp., Fibrobacter spp., Clostridium spp., Pseudomonas spp., Geobacter spp., Arthrobacter spp., Nocardia spp., Aspergillus spp., Trichoderma spp., Candida spp., Yarrowia spp., Piptoporous

spp., *Serpula* spp., *Coriolus* spp., *Phanerochaete* spp., *Pleurotus* spp., *Sporotrichum* spp., *Bjerkandera* spp., and *Trametes* spp., from about 0.0001% to 0.5% by weight percent of said composition.

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37. The solid-chemical composition of Claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, or 20, whereby said composition is prepared in the form of granules, briquettes, tablets, capsules, pellets, and any combinations thereof.
38. The solid-chemical composition of Claim 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, or 36 whereby said composition is prepared in the form of granules, briquettes, tablets, capsules, pellets, and any combinations thereof.
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